

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A vehicle antitheft system comprising:
 - an immobilizer unit including:
 - a first data processor;
 - a first communication part connected with the first data processor;
 - a first antenna connected with the first communication part;
 - a first storage connected with the first data processor, the first storage preliminarily storing first data for mutual authentication; and
 - a second storage connected with the first data processor; and
 - a portable unit including:
 - a second data processor;
 - a second communication part connected with the second data processor;
 - a second antenna connected with the second communication part;
 - a third storage connected with the second data processor, the third storage preliminarily storing the first data for mutual authentication; and
 - a fourth storage connected with the second data processor, the fourth storage preliminarily storing ~~one of the first data for mutual authentication and second~~ data for mutual authentication different from the first data for mutual authentication;
- wherein: ~~one of~~

the immobilizer unit ~~and the portable unit further has~~ includes an information reception part connected with ~~one of the first data processor and the second data processor,~~ and when a first instruction is fed into the information reception part, ~~using the first data for mutual authentication stored in the first storage and the first data for mutual authentication stored in the third storage,~~ the first data processor and the second data processor authenticate each other at least in part by: (1) the first data processor transmitting via the first antenna an encrypted data based in part on the first data for mutual authentication stored in the first storage and (2) the second data processor receiving via the second antenna and decrypting the encrypted data ~~via the first antenna and the second antenna;~~ and

the second data processor further stores, into the third storage and the fourth storage, ~~the one of the first data for mutual authentication and the second data for mutual authentication,~~ the one being stored in the fourth storage, and transmits the stored one of the first data for mutual authentication and the second data for mutual authentication via the second antenna, and

the first data processor further stores, into the second storage, the one of the first data for mutual authentication and the second data for mutual authentication received via the first antenna.

2. (Currently Amended) A vehicle antitheft system comprising:

an immobilizer unit including:

a first data processor;

a first communication part connected with the first data processor;

a first antenna connected with the first communication part;

a first storage connected with the first data processor, the first storage preliminarily storing first data for mutual authentication; and

a second storage connected with the first data processor, the second storage preliminarily storing one of the first data for mutual authentication and second

data for mutual authentication different from the first data for mutual authentication, the second data for mutual authentication received from the second data processor;
and

a portable unit including:

a second data processor;

a second communication part connected with the second data processor;

a second antenna connected with the second communication part; and

a third storage connected with the second data processor, the third storage preliminarily storing the first data for mutual authentication;

wherein, ~~one of the immobilizer unit and the portable unit further has~~ includes an information reception part connected with ~~one of the first data processor and the second data processor,~~ and when a first instruction is fed into the information reception part, ~~using the first data for mutual authentication stored in the first storage and the first data for mutual authentication stored in the third storage,~~ the first data processor and the second data processor authenticate each other at least in part by:
(1) the first data processor transmitting via the first antenna an encrypted data based in part on the first data for mutual authentication stored in the first storage and (2) the second data processor receiving via the second antenna and decrypting the encrypted data, ~~via the first antenna and the second antenna;~~ and

the first data processor further transmits the one of the first data for mutual authentication and the second data for mutual authentication that is stored in the second storage via the first antenna, ~~the one being stored in the second storage,~~ and the second data processor stores, into the third storage, the one of the first data for mutual authentication and the second data for mutual authentication received via the second antenna.

3. (Currently Amended) A vehicle antitheft system comprising:

an immobilizer unit including:

a first data processor;

a first communication part connected with the first data processor;

a first antenna connected with the first communication part;

a first storage connected with the first data processor, the first storage preliminarily storing first data for mutual authentication; and

a second storage connected with the first data processor; and

a portable unit including:

a second data processor;

a second communication part connected with the second data processor;

a second antenna connected with the second communication part; and

a third storage connected with the second data processor, the third storage preliminarily storing the first data for mutual authentication;

wherein, ~~one of the immobilizer unit and the portable unit further has~~ includes an information reception part connected with ~~one of the first data processor and the second data processor,~~ and when a first instruction is fed into the information reception part, ~~using the first data for mutual authentication stored in the first storage and the first data for mutual authentication stored in the third storage,~~ the first data processor and the second data processor authenticate each other at least in part by:
(1) the first data processor transmitting via the first antenna an encrypted data based in part on the first data for mutual authentication stored in the first storage and (2) the second data processor receiving via the second antenna and decrypting the encrypted data, ~~via the first antenna and the second antenna;~~ and

the second data processor further generates, stores into the third storage, and transmits via the second antenna, one of data identical to the first data for mutual authentication and second data for mutual authentication different from the first data for mutual authentication, and the first data processor stores, into the second storage, the one of the first data for mutual authentication and the second data for mutual authentication received via the first antenna.

4. (Currently Amended) A vehicle antitheft system comprising:

an immobilizer unit including:

a first data processor;

a first communication part connected with the first data processor;

a first antenna connected with the first communication part;

a first storage connected with the first data processor, the first storage preliminarily storing first data for mutual authentication; and

a second storage connected with the first data processor; and

a portable unit including:

a second data processor;

a second communication part connected with the second data processor;

a second antenna connected with the second communication part; and

a third storage connected with the second data processor, the third storage preliminarily storing the first data for mutual authentication;

wherein, ~~one of the immobilizer unit and the portable unit further has includes~~
an information reception part connected with ~~one of the first data processor and the~~
~~second data processor~~, and when a first instruction is fed into the information
reception part, ~~using the first data for mutual authentication stored in the first storage~~

~~and the first data for mutual authentication stored in the third storage,~~ the first data processor and the second data processor authenticate each other at least in part by:
(1) the first data processor transmitting via the first antenna an encrypted data based in part on the first data for mutual authentication stored in the first storage and (2) the second data processor receiving via the second antenna and decrypting the encrypted data, ~~via the first antenna and the second antenna;~~ and

the first data processor further generates, stores into the second storage, and transmits via the first antenna, one of data identical to the first data for mutual authentication and second data for mutual authentication different from the first data for mutual authentication, and the second data processor stores, into the third storage, the one of the first data for mutual authentication and the second data for mutual authentication received via the second antenna, the second data being received from the second data processor and stored in the second storage.

5. (Currently Amended) The vehicle antitheft system according to claim 1, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, ~~one of either~~ the first data processor and the second processor generates and stores, into ~~one of~~ the second storage and the third storage, first accumulation data different from the second data for mutual authentication, or the second data processor generates and stores into the third storage the first accumulation data; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, ~~one of either~~ the first data processor and the second data processor generates and stores, into ~~one of~~ the second storage and the third storage, second accumulation data different from the first data for mutual authentication, or the second data processor generates and stores into the third storage the second accumulation data.

6. (Currently Amended) The vehicle antitheft system according to claim 1, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, the first data processor transmits the first data for mutual

authentication stored in the first storage via the first antenna, and the second data processor stores, into the third storage, the first data for mutual authentication received via the second antenna; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, ~~one of either~~ the first data processor ~~and the second data processor generates and stores, into one of the second storage and the third storage,~~ second accumulation data different from the first data for mutual authentication, or the second data processor generates and stores into the third storage the second accumulation data.

7. (Previously Presented) The vehicle antitheft system according to claim 1, wherein the portable unit further has a fifth storage preliminarily storing an ID code, and the first data processor and the second data processor authenticate each other also using the ID code.

8. (Original) The vehicle antitheft system according to claim 7, wherein the immobilizer unit further has a sixth storage, the second data processor transmits, via the second antenna, the ID code stored in the fifth storage, and the first data processor stores, into the sixth storage, the ID code received via the first antenna.

9. (Original) The vehicle antitheft system according to claim 8, wherein upon input of a second instruction into the information reception part, the first data processor generates third accumulation data different from the ID code stored in the sixth storage, and stores the third accumulation data into the sixth storage.

10. (Currently Amended) The vehicle antitheft system according to claim 2, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, ~~one of either~~ the first data processor ~~and the second processor generates and stores, into one of the second storage and the third storage,~~ first accumulation data different from the second data for mutual authentication, or the second data processor generates and stores into the third storage the first accumulation data; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, ~~one of either~~ the first data processor and the second data processor generates and stores, into ~~one of the second storage and the third storage,~~ second accumulation data different from the first data for mutual authentication, or the second data processor generates and stores into the third storage the second accumulation data.

11. (Currently Amended) The vehicle antitheft system according to claim 2, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, the first data processor transmits the first data for mutual authentication stored in the first storage via the first antenna, and the second data processor stores, into the third storage, the first data for mutual authentication received via the second antenna; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, ~~one of either~~ the first data processor and the second data processor generates and stores, into ~~one of the second storage and the third storage,~~ second accumulation data different from the first data for mutual authentication, or the second data processor generates and stores into the third storage the second accumulation data.

12. (Previously Presented) The vehicle antitheft system according to claim 2, wherein the portable unit further has a fifth storage preliminarily storing an ID code, and the first data processor and the second data processor authenticate each other also using the ID code.

13. (Previously Presented) The vehicle antitheft system according to claim 12, wherein the immobilizer unit further has a sixth storage, the second data processor transmits, via the second antenna, the ID code stored in the fifth storage, and the first data processor stores, into the sixth storage, the ID code received via the first antenna.

14. (Previously Presented) The vehicle antitheft system according to claim 13, wherein upon input of a second instruction into the information reception part, the

first data processor generates third accumulation data different from the ID code stored in the sixth storage, and stores the third accumulation data into the sixth storage.

15. (Currently Amended) The vehicle antitheft system according to claim 3, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, ~~one of either the first data processor and the second processor generates and stores;~~ into one of the second storage and the third storage, first accumulation data different from the second data for mutual authentication, or the second data processor generates and stores into the third storage the first accumulation data; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, ~~one of either the first data processor and the second data processor generates and stores;~~ into one of the second storage and the third storage, second accumulation data different from the first data for mutual authentication, or the second data processor generates and stores into the third storage the second accumulation data.

16. (Currently Amended) The vehicle antitheft system according to claim 3, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, the first data processor transmits the first data for mutual authentication stored in the first storage via the first antenna, and the second data processor stores, into the third storage, the first data for mutual authentication received via the second antenna; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, ~~one of either the first data processor and the second data processor generates and stores;~~ into one of the second storage and the third storage, second accumulation data different from the first data for mutual authentication, or the second data processor generates and stores into the third storage the second accumulation data.

17. (Previously Presented) The vehicle antitheft system according to claim 3, wherein the portable unit further has a fifth storage preliminarily storing an ID code, and the first data processor and the second data processor authenticate each other also using the ID code.

18. (Previously Presented) The vehicle antitheft system according to claim 17, wherein the immobilizer unit further has a sixth storage, the second data processor transmits, via the second antenna, the ID code stored in the fifth storage, and the first data processor stores, into the sixth storage, the ID code received via the first antenna.

19. (Previously Presented) The vehicle antitheft system according to claim 18, wherein upon input of a second instruction into the information reception part, the first data processor generates third accumulation data different from the ID code stored in the sixth storage, and stores the third accumulation data into the sixth storage.

20. (Currently Amended) The vehicle antitheft system according to claim 4, wherein, upon input of a second instruction into the information reception part, when both of data stored in the second storage and the third storage are the second data for mutual authentication, ~~one of either~~ the first data processor and the second processor generates and stores, into ~~one of the second storage and the third storage~~, first accumulation data different from the second data for mutual authentication, or the second data processor generates and stores into the third storage the first accumulation data; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, ~~either one of the first data processor and the second data processor~~ generates and stores, into ~~one of the second storage and the third storage~~, second accumulation data different from the first data for mutual authentication, or the second data processor generates and stores into the third storage the second accumulation data.

21. (Currently Amended) The vehicle antitheft system according to claim 4, wherein, upon input of a second instruction into the information reception part, when

both of data stored in the second storage and the third storage are the second data for mutual authentication, the first data processor transmits the first data for mutual authentication stored in the first storage via the first antenna, and the second data processor stores, into the third storage, the first data for mutual authentication received via the second antenna; and

when both of data stored in the second storage and the third storage are identical to the first data for mutual authentication, ~~one of either~~ the first data processor ~~and the second data processor generates and stores,~~ into ~~one of the second storage and the third storage,~~ second accumulation data different from the first data for mutual authentication, or the second data processor generates and stores into the third storage the second accumulation data.

22. (Previously Presented) The vehicle antitheft system according to claim 4, wherein the portable unit further has a fifth storage preliminarily storing an ID code, and the first data processor and the second data processor authenticate each other also using the ID code.

23. (Previously Presented) The vehicle antitheft system according to claim 22, wherein the immobilizer unit further has a sixth storage, the second data processor transmits, via the second antenna, the ID code stored in the fifth storage, and the first data processor stores, into the sixth storage, the ID code received via the first antenna.

24. (Previously Presented) The vehicle antitheft system according to claim 23, wherein upon input of a second instruction into the information reception part, the first data processor generates third accumulation data different from the ID code stored in the sixth storage, and stores the third accumulation data into the sixth storage.